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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/017,760	12/14/2001	Young C. Ko	KCC-17,473	8158
35844 7590 01/20/2004 PAULEY PETERSEN KINNE & ERICKSON 2800 WEST HIGGINS ROAD			EXAMINER YAO, SAMCHUAN CUA	
HOFFMAN ES	TATES, IL 60195		1733	*

Please find below and/or attached an Office communication concerning this application or proceeding.

			CAL				
	; = ·	Application No.	Applicant(s)				
		10/017,760	KO ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Sam Chuan C. Yao	1733				
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
THE - Exte after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply period for reply specified above, the maximum statutory period re to reply within the set or extended period for reply sitl, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABADIONET	ely filed will be considered timely, the mailing date of this communication. 0. (35 U.S.C. 8.133)				
1)⊠	Responsive to communication(s) filed on 29 De	cember 2003.					
2a)⊠	This action is FINAL . 2b) ☐ This a	ction is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)⊠	Claim(s) 1-32 is/are pending in the application.						
	4a) Of the above claim(s) 7 and 9 is/are withdraw	wn from consideration.	•				
	Claim(s) is/are allowed.						
	Claim(s) <u>1-6,8 and 10-32</u> is/are rejected.						
_	Claim(s) is/are objected to.						
	Claim(s) are subject to restriction and/or	election requirement.					
Applicati	on Papers						
9)☐ The specification is objected to by the Examiner.							
	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
_	nder 35 U.S.C. §§ 119 and 120						
a)L * S 13)∐ A	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 3. Corpies of the certified copies of the priority application from the International Bureau ee the attached detailed Office action for a list or cknowledgment is made of a claim for domestic	have been received. have been received in Applicatio y documents have been received (PCT Rule 17.2(a)). f the certified copies not received priority under 35 U.S.C. § 119(e)	n No i in this National Stage l. (to a provisional application)				
37 a)	nce a specific reference was included in the first CFR 1.78. The translation of the foreign language provi	isional application has been rece	ived.				
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.							
Attachment((s)						
2) 🔲 Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s)	4) Interview Summary (F 5) Notice of Informal Pat 6) Other:	PTO-413) Paper No(s) ent Application (PTO-152)				

U.S. Patent and Trademark Office PTOL-326 (Rev. 11-03) Application/Control Number: 10/017,760

Art Unit: 1733

DETAILED ACTION

Claim Rejections - 35 USC § 102/103

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States,
- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-3, 10, 12-19, and 21-27 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Itoh et al (US 4,892,754) for reasons of record set forth in the last office action in numbered paragraph 7 dated 09-14-03, and for reasons set forth hereinafter.

In light of the following passage (for example), "... a [1st] method wherein a radical polymerization initiator is <u>applied uniformly</u> in the form of a separate solution from the aqueous monomer to the fibrous substrate, to which the aqueous monomer has previously been applied, by spraying or the like and is decomposed on the fibrous substrate **and** a [2nd] method wherein a radical polymerization initiator is applied uniformly in the form of a separate solution from the aqueous monomer to the fibrous substrate, and then the aqueous monomer is uniformly applied thereto, by spraying, coating or the like" (bold face, emphasis

and words added; col. 6 lines 49-59), it is taken that, the teachings of Itoh et al. envisions sequentially spraying (i.e. applying in a form of droplets) 1st and 2nd superabsorbent precursor compositions to a preformed fibrous web. Note that, since Itoh et al expressly teaches "the aqueous monomer is uniformly applied thereto, by spraying" in the 2nd method, and since Ito et al also applying a 2nd superabsorbent precursor composition in a form of a mist (column 8 lines 41-46). at least in the above 1st method that, Itoh et al is taken to reasonably envision uniformly applying a radical polymerization initiator by spraying. In any event, it would have been obvious in the art to use a spraying method in a sequential application of 1st and 2nd superabsorbent precursor compositions to a preformed fibrous web, because there are only three conventional methods (impregnating, spraying, and coating) for applying these compositions suggested by Itoh et al. (col. 6 lines 9-59), and Ito et al also teaches sequentially applying a 1st superabsorbent precursor composition and a 2nd superabsorbent precursor composition to a fibrous substrate wherein the 2nd superabsorbent precusor composition is in form of a mist (col. 8 lines 41-46). Moreover, it is conventional in the art to impregnate or coat a fibrous substrate with a polymeric compositon by spraying.

4. Claims 28-31 are rejected under 35 U.S.C. 102(b) as being anticipated by Itoh et al (US 4,892,754) for reasons of record set forth in the last office action in numbered paragraph 7 dated 09-14-03, and for reasons set forth hereinafter.

In light of the following passage, "... a [1st] method wherein a radical polymerization initiator is applied uniformly in the form of a separate solution from the aqueous monomer to the fibrous substrate, to which the aqueous monomer has previously been applied, by spraying or the like and is decomposed on the fibrous substrate **and** a [2nd] method wherein a radical polymerization initiator is applied uniformly in the form of a separate solution from the aqueous monomer to the fibrous substrate, and then the aqueous monomer is uniformly applied thereto, by spraying, coating or the like" (bold face and words added: col. 6 lines 49-59), it is taken that, the teachings of Itoh et al envisions seguentially spraying (i.e. applying in a form of droplets) 1st and 2nd superabsorbent precursor compositions to a preformed fibrous web. Note that, since Itoh et al expressly teaches "the aqueous monomer is uniformly applied thereto, by spraying" in the 2nd method, and since Ito et al also applying a 2nd superabsorbent precursor composition in a form of a mist (column 8 lines 41-46), at least in the above 1st method that, Itoh et al is taken to reasonably envision uniformly applying a radical polymerization initiator by spraying.

- 5. Claims 4-6, 11, 20 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Itoh et al (US 4,892,754) as applied to claim 1, 18 or 28 above for reasons of record set forth in the last office action in numbered paragraph 9 dated 09-14-03.
- Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Itoh et al
 (US 4,892,754) as applied to claim 1 above, and further in view of Soderlund (US

5,248,524) and Trokhan et al (US 5,547,747) for reasons of record set forth in the last office action in numbered paragraph 10 dated 09-14-03.

Response to Arguments

7. Applicant's arguments filed 12-29-03 have been fully considered but they are not persuasive.

Counsel essentially argues that, Itoh et al does not teach separately applying 1st and 2nd superabsorbent compositions to a fibrous web, wherein the two compositions are applied in a form of a droplet or micro-droplet. Examiner disagrees with Counsel's characterization of the Itoh et al patent. It is respectfully submitted that, one in the art reading the Itoh patent as a whole would have reasonably recognized and appreciated that, it is envisioned in the process of Itoh et al to sequentially apply 1st and 2nd superabsorbent polymer precursor compositions to a fibrous substrate by spraying for reasons set forth in numbered paragraph 3 or 4. In any event, such would have been obvious in the art for reasons set forth in numbered paragraph 3. It is worthnoting that, it is a notoriously common practice in the art to use a spraying technique to either impregnate or coat a fibrous web with a polymeric composition.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sam Chuan C. Yao whose telephone number is (571) 272-1224. The examiner can normally be reached on Monday-Friday with second Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Crispino can be reached on (571) 272-1226. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 123-345-7890.

Sam Chuan C. Yao Primary Examiner Art Unit 1733

Scy 01-12-04